

**at1121exam\_practice EXAMPLE! DO NOT HAND IN FOR CREDIT (v4)**

- If you are looking for a practice exam that you can hand in for credit:

<https://chadworley.github.io/algtwo2026/u04/1121/at1121exam/at1121exam.html>

**Question 1**

Simplify the radical expressions.

$$\sqrt{45}$$

$$\sqrt{18}$$

$$\sqrt{20}$$

**Question 2**

Find all solutions to the equation below:

$$\frac{(x-8)^2}{9} - 2 = 7$$

**Question 3**

By [completing the square](#), find both solutions to the given equation. *You must show work for full credit!*

$$x^2 + 6x = 91$$

**Question 4**

A quadratic polynomial function is shown below in standard form.

$$y = 5x^2 + 30x + 39$$

Express the function in **vertex form** and identify the **location** of the vertex.